

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

**(19) World Intellectual Property
Organization
International Bureau**



(43) International Publication Date
6 May 2004 (06.05.2004)

PCT

(10) International Publication Number
WO 2004/038167 A1

- (51) **International Patent Classification⁷:** E21B 17/02, 33/12

(21) **International Application Number:** PCT/NO2003/000343

(22) **International Filing Date:** 17 October 2003 (17.10.2003)

(25) **Filing Language:** English

(26) **Publication Language:** English

(30) **Priority Data:**
20025162 25 October 2002 (25.10.2002) NO

(71) **Applicant (for all designated States except US):** RESLINK AS [NO/NO]; P.O. Box 204, N-4339 Ålgård (NO).

(72) **Inventors; and**

(75) **Inventors/Applicants (for US only):** MOEN, Terje [NO/NO]; Diamantveien 36A, N-4318 Sandnes (NO). DYBEVIK, Arthur, H. [NO/NO]; Harriet Backersgate 19, N-4307 Sandnes (NO).

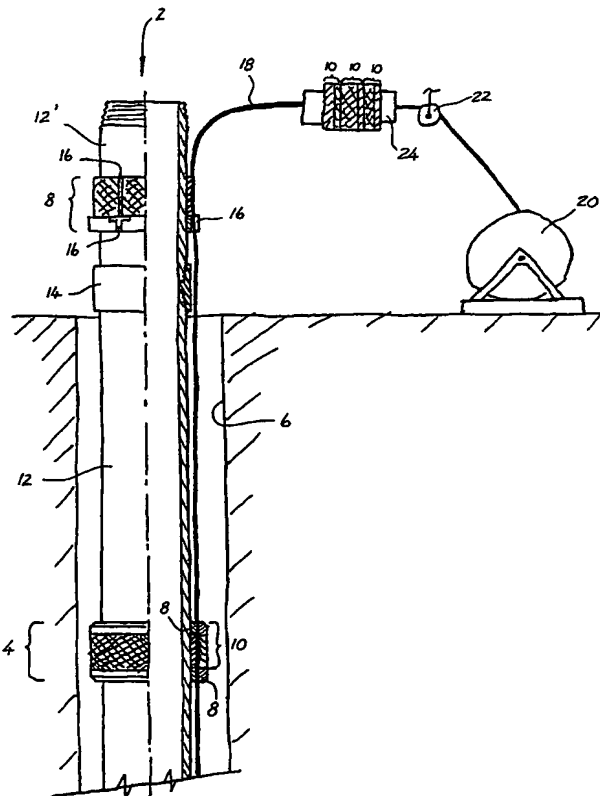
(74) **Agent:** HÅMSØ PATENTBYRÅ ANS; P.O. Box 171, N-4302 Sandnes (NO).

(81) **Designated States (national):** AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, EG, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) **Designated States (regional):** ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CZ, CY, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

- (54) Title: WELL PACKER FOR A PIPE STRING AND A METHOD OF LEADING A LINE PAST THE WELL PACKER



(57) Abstract: The invention concerns an external well packer (4, 4', 4'') for a pipe string (2), and also a method of leading at least one line (18) seamlessly past at least one packer (4, 4', 4'') along the pipe string (2). What is characteristic of the packer (4, 4', 4'') is that it consists of a continuous inner packer ring (8) and a separate and continuous outer packer ring (10), which in the operating position encloses the inner packer ring (8) in a pressure tight manner. The fitting surface of at least one of the packer rings (8, 10) is provided with at least one through-going line slot (16, 16'), which in the operating position encloses a line (18) in a pressure tight manner. This allows continuous lines (18) to be stretched out past several such packers (4, 4', 4'').



Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.